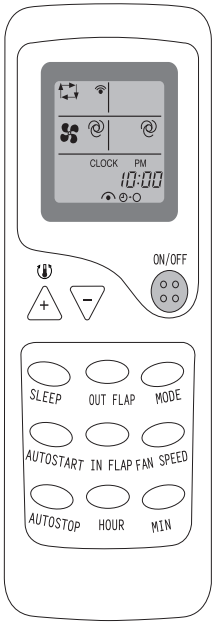
It is convenient to set the timer for the time when you go to bed ,when you get home ,when you get up , ect.



How to set the ON timer

1 **Press the AUTO START button to set the on timer mode when the AC is in the standby mode.**

Each time the button is pressed, the ON timer mode alternates between ON and OFF.

2 **Set the time of the timer using the HOUR and MIN buttons.**

Each time the HOUR button is pressed , the Set time is counted up by 1 hour; each time the "MIN" button is pressed, the set time is counted by 10 minutes.

● **To release the ON timer:**

Press the AUTO START button to release the timer.

HOW to set the OFF timer

1 **Press the AUTO STOP button to set the OFF timer mode during operation.**

Each time the button is pressed, the OFF timer mode alternates beteen ON and OFF.

2 **set the time of the timer using the HOUR and MIN buttons.**

Each time the HOUR button is pressed , the Set time is counted up by 1 hour; each time the "MIN" button is pressed, the set time is counted by 10 minutes.

● **TO release the OFF timer:**

Press the AUTO STOP button to release the timer.

Programming timer operation

The ON timer and OFF timer can be used in combination .The time of the set time which is reached first will operate first (⇄ mark indicates the order of timer operations.)

● If the current time has not been set ,the timer operation cannot be done.

【Features of Heating Operations】

Basic principles and performances

○ The machines absorb heat from the outdoor air and transfer it indoors so as to heat the room air. The heating capabilities through this principle of heat pump go up/down with the increase/decrease of the temperatures of the outdoor air.

○ It only needs a fairly short time for such hot air circulation system to raise the room temperature.

○ When the outdoor air temperature is very low, the system can be used together with other heating devices. But good ventilation should be maintained to ensure safety and prevent accidents.

Defrosting

When the outdoor air temperature is very low and humidity is very high, frosting will occur to the heat exchanger of the outdoor unit, which has negative impacts upon the efficiency of the heating performance. In such case, the automatic defrosting function will come into play. The heating operation will be stopped for 5-10 minutes to do the defrosting.

○ During the defrosting, the outdoor unit might generate some steam. It is caused by fast defrosting, which is not a performance failure.

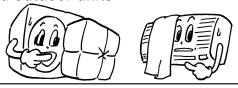
○ Upon the completion of the defrosting process, the heating operation is resumed.

【Methods of Maintenance】

The air conditioner must be turned off power before the maintenance is to be carried out.

Before the season of operation

1. Check if there are any blocking materials in the intake and outlet vents of the indoor and outdoor units.



2. Check if the installation stand is corroded or rusty.
3. Check if the machine is properly grounded.

4. Check if the air filter is clean.
5. Connect to the power source.
6. Put batteries in the remote controller.

During the season of operation

The cleaning of the air filter screen (Standard intervals should be once every two weeks).

1. Remove the air filter screen from the unit.
   - Gently press the two lower ends of the grid and open it.
   - Gently pull up the air filter screen and take it out in the direction of your body.

2. Clean the air filter screen.

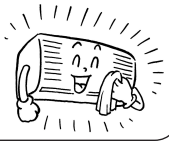
   if the screen is very dirty, please use lukewarm water (about 86°F or 30°C) to clean it. Air it dry after the cleaning.

   Note:
   - Do not use boiling water to clean the screen.
   - Do not bake the screen dry over a fire.
   - Do not exert too much force in pulling and stretching the screen.
3. Install the air filter screen.

To operate the air conditioner without the air filter screen on will cause the interior of the machine dirty which might lead to poor performances or damages to the units.

Clean the air conditioner

- Use a soft and dry cloth to rub the air conditioner, or use a vacuum cleaner to clean it.
- If the air conditioner is very dirty, use a piece of cloth and soak it with neutral home-use detergent to do the cleaning.



After the season of operation

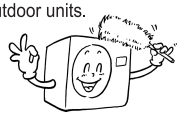
1. Set the temperature at 86°F or 30°C and operate in the fan status for about half a day.

To make the interior of the units dry

2. Stop the operation of the machine and turn off the power switch.

The air conditioner will consume about 5W of electric power after the machine is turned off. For the purpose of energy saving and safety, it is advisable to pull the plug out during the non-operational seasons.

3. Clean and install the air filter screen.
4. Clean the indoor and outdoor units.



5. Take the batteries out from the remote controller.

Note:
If the air filter screen is blocked by dust or dirt, the performance of cooling and heating will be affected, with the operation noise and power consumption increased. Therefore, the air filter screen should be cleaned regularly.

【Treatment at service call】

Please check the following before requesting after-sale service from your dealer .

The air conditioner does not operate at all .

Is the power in an outlet ?	Is the time set to "ON" position ?	Is there a power failure or a break fuse ?

Poor cooling or heating performance .

Is the room temperature setting suitable ?	Are the air filters clean (Not clogged)?	Are the window (s) and door (s) opened ?

Poor cooling performance .

Is direct sunlight entering the room ?	Is there a heat source in the room ?	Are there too many people in the room ?

Room temperature can't be controlled . (Too cold or too hot)

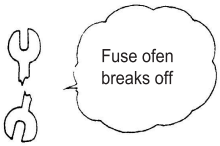
Is the room temperature setting too low or too high?

If the air conditioner does not operate properly ever after conducting the above checks , when the doubt still remains even after consulting page 11 or in case that such phenomena as those shown below, turn off the power and contact your distributor .

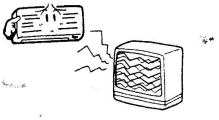
Cases requiring immediate contact with the distributor

Pull out the power plug immediately and inform to your distributor in the following situations:

Fuse or breaker often breaks off

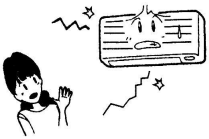


Malfunction is observed TV , radio or other devices .



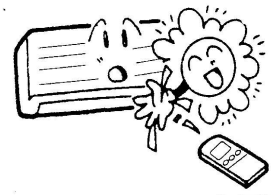
Switch dose not actuate surely

Abnormal noise is heard during operation



When faulty operation movement is observed when the RUN button is pressed , even after restarting the operation after 3 minutes , faulty movement does not disappear .

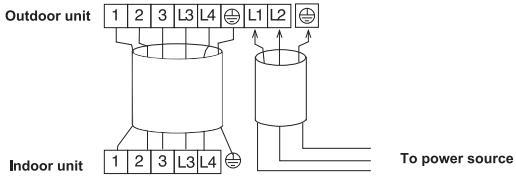
【We hope you will know the following when using the unit】

The unit can not be restarted just after shut down . (RUN I 	
	
	If the unit is operated for a long period of time with the high humidity , moisture may form on the air outlet grilles and drip down .

Points of attention

- HACR type breaker should be utilized along with proper installation;
- Make sure of the applicable voltage and cables or wires for the specific model to be used, before doing the connections;
- Read the prompts at the terminal board for wiring. Make sure the wiring is done correctly.
- Pay attention to the poles of the signal terminal and connect the terminals to match the identification numbers.
- When the wiring connections are wrong, the compressor will not work.
- The connecting wires are not supplied.
- The provision for connection of one of the wiring systems that in accordance with the National Electric Code shall be had.ANSI/NFPA 70-1990 would be acceptable for it.
- The connecting wires specification is 14 AWG,VW-1(orTHHW),copper core and 105^{0}C(or 221^{0}F) .Their set screw diameter is 4 mm.The power sourc is 240V,60Hz and 1phase.Minimum circuit ampacity of the wiring systems is 20A.

Connection of wires for outdoor unit and indoor unit



Note:

- The environment conditions must be taken into consideration when the connections of power cable are made (such as the ambient temperature, direct exposure to heat/direct exposure to sunlight);
- The specifications for the power cable refer to the minimum values of the metal core wires. Taking into consideration the voltage losses, the core wire of power cable must be one size larger than the specifications;
- The grounding wire must be connected to the indoor units and outdoor units;
- The laying of power cables must be done by qualified electricians and comply with the regulations of the local power supply authorities and with the standards of the electric appliances;